METHOD AND APPARATUS FOR GENER-ATING HIGH FREQUENCY SIGNALS BY A PLURALITY OF LOW FREQUENCY SIGNALS WITH MULTIPLE PHASES

Abstract

Method and related apparatus for realizing frequency-multiplication by generating a high frequency signal according to a
plurality of low frequency signals. The method includes: according
to a plurality output signals generated by a phase-locked loop
(PLL) or a delay-locked loop (DLL), generating a plurality of reference signals with a same frequency and different phases; when a
number of the reference signals with signal level high is greater
than a number of the reference signals with signal level low, making a signal level of the output signal remains a first level; otherwise, making the signal level of the output signal remains a second level substantially different from the first level. Thus the frequency of the output signals is a multiplication of the frequency
of the input signals.